

Title (en)  
TRANSMISSION METHOD AND RECEPTION DEVICE

Title (de)  
SENDEVERFAHREN UND EMPFANGSVORRICHTUNG

Title (fr)  
PROCÉDÉ DE TRANSMISSION ET DISPOSITIF DE RÉCEPTION

Publication  
**EP 3579425 A4 20200415 (EN)**

Application  
**EP 18747589 A 20180123**

Priority  
• JP 2017019267 A 20170206  
• JP 2018001947 W 20180123

Abstract (en)  
[origin: US2019341938A1] In group-wise interleaving, the LDPC code with a code length N of 69120 bits is interleaved in units of 360-bit bit groups. In group-wise deinterleaving, a sequence of the LDPC code after group-wise interleaving is returned to an original sequence. The present technology can be applied, for example, in a case of performing data transmission using an LDPC code, and the like.

IPC 8 full level  
**H03M 13/11** (2006.01); **H03M 13/03** (2006.01); **H03M 13/25** (2006.01); **H03M 13/27** (2006.01); **H03M 13/29** (2006.01)

CPC (source: EP KR US)  
**H03M 13/036** (2013.01 - EP); **H03M 13/1102** (2013.01 - US); **H03M 13/1111** (2013.01 - EP); **H03M 13/1148** (2013.01 - KR); **H03M 13/116** (2013.01 - EP); **H03M 13/1185** (2013.01 - EP); **H03M 13/19** (2013.01 - KR); **H03M 13/255** (2013.01 - EP US); **H03M 13/27** (2013.01 - KR); **H03M 13/2707** (2013.01 - EP); **H03M 13/2757** (2013.01 - US); **H03M 13/2778** (2013.01 - EP); **H03M 13/2906** (2013.01 - EP); **H03M 13/616** (2013.01 - EP); **H04L 1/00** (2013.01 - KR); **H04L 27/00** (2013.01 - KR); **H04L 27/2053** (2013.01 - US); **H03M 13/152** (2013.01 - EP); **H04L 1/0057** (2013.01 - EP); **H04L 1/0071** (2013.01 - EP); **H04L 27/206** (2013.01 - EP); **H04L 27/362** (2013.01 - EP)

Citation (search report)  
• [A] US 2015236816 A1 20150820 - MYUNG SE-HO [KR], et al  
• [AD] ATSC: "ATSC Standard: Physical Layer Protocol (A/322)", ATSC STANDARD, 7 September 2016 (2016-09-07), pages 1 - 258, XP055405794, Retrieved from the Internet <URL:http://www.atsc.org/wp-content/uploads/2016/10/A322-2016-Physical-Layer-Protocol.pdf> [retrieved on 20170912]  
• [A] "Digital Video Broadcasting (DVB); Next Generation broadcasting system to Handheld, physical layer specification (DVB-NGH)", ETSI EN 302 755 V1.3.1, 30 November 2012 (2012-11-30), XP055248828  
• [A] KYUNG-JOONG KIM ET AL: "Low-Density Parity-Check Codes for ATSC 3.0", IEEE TRANSACTIONS ON BROADCASTING., vol. 62, no. 1, 1 March 2016 (2016-03-01), US, pages 189 - 196, XP055563521, ISSN: 0018-9316, DOI: 10.1109/TBC.2016.2515538  
• See references of WO 2018143009A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 10931312 B2 20210223**; **US 2019341938 A1 20191107**; BR 112019015658 A2 20200331; EP 3579425 A1 20191211; EP 3579425 A4 20200415; EP 3579425 B1 20221012; JP 2018129567 A 20180816; JP 2021097410 A 20210624; JP 6852427 B2 20210331; JP 7022361 B2 20220218; KR 102475276 B1 20221208; KR 20190111958 A 20191002; MX 2019009017 A 20191128; TW 201832526 A 20180901; TW I666898 B 20190721; WO 2018143009 A1 20180809

DOCDB simple family (application)  
**US 201816475322 A 20180123**; BR 112019015658 A 20180123; EP 18747589 A 20180123; JP 2017019267 A 20170206; JP 2018001947 W 20180123; JP 2021030247 A 20210226; KR 20197022399 A 20180123; MX 2019009017 A 20180123; TW 107103042 A 20180129